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United States Patent [19]

Shima et al.

[11] Patent Number: **5,931,011**[45] Date of Patent: **Aug. 3, 1999**[54] **LOW TEMPERATURE STORAGE CABINET**

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62/228.1; 165/269[58] Field of Search 62/157, 180, 182,
62/186, 207, 228.1, 228.3, 229; 165/269,
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[57] **ABSTRACT**

A low temperature storage cabinet having a freezing cycle system composed of a compressor, a condenser, a throttle and an evaporator, a cabinet temperature sensor for detecting an inside temperature of the cabinet, and an electric fan provided in the cabinet for circulating cooled air in the interior of the cabinet, wherein the compressor in the freezing cycle system is activated in response to rise of the inside temperature of the cabinet and deactivated in response to a fall in the inside temperature of the cabinet, and wherein the rate of operation of the electric fan is decreased in accordance with a decrease of temperature or pressure of refrigerant in the freezing cycle system during deactivation of the compressor to thereby reduce consumption of the electric power.

10 Claims, 14 Drawing Sheets